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K. Carrella
RAW SEQUENCE LISTING
PATENT APPLICATION US/09/270,437A

RECEIVED 42
JUL 20 2000
TECH CENTER 1600/2900

DATE: 07/07/2000
TIME: 10:41:12

Input Set: I270437A.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: Chen, Yao-Tseng
2 Gure, Ali
3 Tsang, Solam
4 Stockert, Elisabeth
5 Jager, Elke
6 Knuth, Alexander
7 Old, Lloyd J.
8 <120> TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associate
9 Antigens Per Se, And Uses Thereof
10 <130> FILE REFERENCE: LUD 5538.1 PCT
11 <140> CURRENT APPLICATION NUMBER: US/09/270,437A
12 <141> CURRENT FILING DATE: 1999-03-16
13 <160> NUMBER OF SEQ ID NOS: 8
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15 <211> LENGTH: 4265
16 <212> TYPE: DNA
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92 <210> SEQ ID NO 2
93 <211> LENGTH: 1142
94 <212> TYPE: PRT

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95 <213> ORGANISM: Homo sapiens
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97 <400> SEQUENCE: 2
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101           20              25              30
102 Ser Pro Leu Gln Ile Pro Gln Ser Ser Pro Glu Ser Asp Asp Thr Leu
103           35              40              45
104 Tyr Pro Leu Gln Ser Pro Gln Ser Arg Ser Glu Gly Glu Asp Ser Ser
105           50              55              60
106 Asp Pro Leu Gln Arg Pro Pro Glu Gly Lys Asp Ser Gln Ser Pro Leu
107           65              70              75              80
108 Gln Ile Pro Gln Ser Ser Pro Glu Gly Asp Asp Thr Gln Ser Pro Leu
109           85              90              95
110 Gln Asn Ser Gln Ser Ser Pro Glu Gly Lys Asp Ser Leu Ser Pro Leu
111           100             105             110
112 Glu Ile Ser Gln Ser Pro Pro Glu Gly Glu Asp Val Gln Ser Pro Leu
113           115             120             125
114 Gln Asn Pro Ala Ser Ser Phe Phe Ser Ser Ala Leu Leu Ser Ile Phe
115           130             135             140
116 Gln Ser Ser Pro Glu Ser Ile Gln Ser Pro Phe Glu Gly Phe Pro Gln
117           145             150             155             160
118 Ser Val Leu Gln Ile Pro Val Ser Ala Ala Ser Ser Ser Thr Leu Val
119           165             170             175
120 Ser Ile Phe Gln Ser Ser Pro Glu Ser Thr Gln Ser Pro Phe Glu Gly
121           180             185             190
122 Phe Pro Gln Ser Pro Leu Gln Ile Pro Val Ser Arg Ser Phe Ser Ser
123           195             200             205
124 Thr Leu Leu Ser Ile Phe Gln Ser Ser Pro Glu Arg Ser Gln Arg Thr
125           210             215             220
126 Ser Glu Gly Phe Ala Gln Ser Pro Leu Gln Ile Pro Val Ser Ser Ser
127           225             230             235             240
128 Ser Ser Ser Thr Leu Leu Ser Leu Phe Gln Ser Ser Pro Glu Arg Thr
129           245             250             255
130 Gln Ser Thr Phe Glu Gly Phe Pro Gln Ser Pro Leu Gln Ile Pro Val
131           260             265             270
132 Ser Arg Ser Phe Ser Ser Thr Leu Leu Ser Ile Phe Gln Ser Ser Pro
133           275             280             285
134 Glu Arg Thr Gln Ser Thr Phe Glu Gly Phe Ala Gln Ser Pro Leu Gln
135           290             295             300
136 Ile Pro Val Ser Pro Ser Phe Ser Ser Thr Leu Val Ser Ile Phe Gln
137           305             310             315             320
138 Ser Ser Pro Glu Arg Thr Gln Ser Thr Phe Glu Gly Phe Pro Gln Ser
139           325             330             335
140 Pro Leu Gln Ile Pro Val Ser Ser Ser Phe Ser Ser Thr Leu Leu Ser
141           340             345             350
142 Leu Phe Gln Ser Ser Pro Glu Arg Thr Gln Ser Thr Phe Glu Gly Phe
143           355             360             365
144 Pro Gln Ser Pro Leu Gln Ile Pro Gly Ser Pro Ser Phe Ser Ser Thr

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146	Leu Leu Ser Leu Phe Gln Ser Ser Pro Glu Arg Thr His Ser Thr Phe		
147	385	390	395
148	Glu Gly Phe Pro Gln Ser Pro Leu Gln Ile Pro Met Thr Ser Ser Phe		
149	405	410	415
150	Ser Ser Thr Leu Leu Ser Ile Leu Gln Ser Ser Pro Glu Ser Ala Gln		
151	420	425	430
152	Ser Ala Phe Glu Gly Phe Pro Gln Ser Pro Leu Gln Ile Pro Val Ser		
153	435	440	445
154	Ser Ser Phe Ser Tyr Thr Leu Leu Ser Leu Phe Gln Ser Ser Pro Glu		
155	450	455	460
156	Arg Thr His Ser Thr Phe Glu Gly Phe Pro Gln Ser Pro Leu Gln Ile		
157	465	470	475
158	Pro Val Ser Ser Ser Ser Ser Ser Thr Leu Leu Ser Leu Phe Gln		
159	485	490	495
160	Ser Ser Pro Glu Cys Thr Gln Ser Thr Phe Glu Gly Phe Pro Gln Ser		
161	500	505	510
162	Pro Leu Gln Ile Pro Gln Ser Pro Pro Glu Gly Glu Asn Thr His Ser		
163	515	520	525
164	Pro Leu Gln Ile Val Pro Ser Leu Pro Glu Trp Glu Asp Ser Leu Ser		
165	530	535	540
166	Pro His Tyr Phe Pro Gln Ser Pro Pro Gln Gly Glu Asp Ser Leu Ser		
167	545	550	555
168	Pro His Tyr Phe Pro Gln Ser Pro Pro Gln Gly Glu Asp Ser Leu Ser		
169	565	570	575
170	Pro His Tyr Phe Pro Gln Ser Pro Gln Gly Glu Asp Ser Leu Ser Pro		
171	580	585	590
172	His Tyr Phe Pro Gln Ser Pro Pro Gln Gly Glu Asp Ser Met Ser Pro		
173	595	600	605
174	Leu Tyr Phe Pro Gln Ser Pro Leu Gln Gly Glu Glu Phe Gln Ser Ser		
175	610	615	620
176	Leu Gln Ser Pro Val Ser Ile Cys Ser Ser Ser Thr Pro Ser Ser Leu		
177	625	630	635
178	Pro Gln Ser Phe Pro Glu Ser Ser Gln Ser Pro Pro Glu Gly Pro Val		
179	645	650	655
180	Gln Ser Pro Leu His Ser Pro Gln Ser Pro Pro Glu Gly Met His Ser		
181	660	665	670
182	Gln Ser Pro Leu Gln Ser Pro Glu Ser Ala Pro Glu Gly Glu Asp Ser		
183	675	680	685
184	Leu Ser Pro Leu Gln Ile Pro Gln Ser Pro Leu Glu Gly Glu Asp Ser		
185	690	695	700
186	Leu Ser Ser Leu His Phe Pro Gln Ser Pro Pro Glu Trp Glu Asp Ser		
187	705	710	715
188	Leu Ser Pro Leu His Phe Pro Gln Phe Pro Pro Gln Gly Glu Asp Phe		
189	725	730	735
190	Gln Ser Ser Leu Gln Ser Pro Val Ser Ile Cys Ser Ser Ser Thr Ser		
191	740	745	750
192	Leu Ser Leu Pro Gln Ser Phe Pro Glu Ser Pro Gln Ser Pro Pro Glu		
193	755	760	765
194	Gly Pro Ala Gln Ser Pro Leu Gln Arg Pro Val Ser Ser Phe Phe Ser		

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198 Pro Pro Glu Gly Pro Ala Gln Ser Pro Leu Gln Ser Pro Val Ser Ser
199          805          810          815
200 Phe Pro Ser Ser Thr Ser Ser Ser Leu Ser Gln Ser Ser Pro Val Ser
201          820          825          830
202 Ser Phe Pro Ser Ser Thr Ser Ser Ser Leu Ser Lys Ser Ser Pro Glu
203          835          840          845
204 Ser Pro Leu Gln Ser Pro Val Ile Ser Phe Ser Ser Ser Thr Ser Leu
205          850          855          860
206 Ser Pro Phe Ser Glu Glu Ser Ser Ser Pro Val Asp Glu Tyr Thr Ser
207 865          870          875          880
208 Ser Ser Asp Thr Leu Leu Glu Ser Asp Ser Leu Thr Asp Ser Glu Ser
209          885          890          895
210 Leu Ile Glu Ser Glu Pro Leu Phe Thr Tyr Thr Leu Asp Glu Lys Val
211          900          905          910
212 Asp Glu Leu Ala Arg Phe Leu Leu Leu Lys Tyr Gln Val Lys Gln Pro
213          915          920          925
214 Ile Thr Lys Ala Glu Met Leu Thr Asn Val Ile Ser Arg Tyr Thr Gly
215          930          935          940
216 Tyr Phe Pro Val Ile Phe Arg Lys Ala Arg Glu Phe Ile Glu Ile Leu
217 945          950          955          960
218 Phe Gly Ile Ser Leu Arg Glu Val Asp Pro Asp Asp Ser Tyr Val Phe
219          965          970          975
220 Val Asn Thr Leu Asp Leu Thr Ser Glu Gly Cys Leu Ser Asp Glu Gln
221          980          985          990
222 Gly Met Ser Gln Asn Arg Leu Leu Ile Leu Ile Leu Ser Ile Ile Phe
223          995          1000          1005
224 Ile Lys Gly Thr Tyr Ala Ser Glu Glu Val Ile Trp Asp Val Leu Ser
225          1010          1015          1020
226 Gly Ile Gly Val Arg Ala Gly Arg Glu His Phe Ala Phe Gly Glu Pro
227          1025          1030          1035          1040
228 Arg Glu Leu Leu Thr Lys Val Trp Val Gln Glu His Tyr Leu Glu Tyr
229          1045          1050          1055
230 Arg Glu Val Pro Asn Ser Ser Pro Pro Arg Tyr Glu Phe Leu Trp Gly
231          1060          1065          1070
232 Pro Arg Ala His Ser Glu Val Ile Lys Arg Lys Val Val Glu Phe Leu
233          1075          1080          1085
234 Ala Met Leu Lys Asn Thr Val Pro Ile Thr Phe Pro Ser Ser Tyr Lys
235          1090          1095          1100
236 Asp Ala Leu Lys Asp Val Glu Glu Arg Ala Gln Ala Ile Ile Asp Thr
237          1105          1110          1115          1120
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239          1125          1130          1135
240 Pro Ser Phe Ser Ser Glu
241          1140
242 <210> SEQ ID NO 3
243 <211> LENGTH: 7
244 <212> TYPE: PRT

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Input Set: I270437A.RAW

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314	W	"N" or "Xaa" used: Feature required	aattgatttt ttgagttttg gnttgnaaga tgatcaca
315	W	"N" or "Xaa" used: Feature required	ggacatatnt tataaccctt taaaaaaaaa atcccctg
316	W	"N" or "Xaa" used: Feature required	atttcgatac agactagatg tctttctgaa gatcaatt
321	W	"N" or "Xaa" used: Feature required	aggagctgca tttaaaacct gctggtttaa attctgtc
322	W	"N" or "Xaa" used: Feature required	gtatggcnaa tcanaattta cttttactta agcatttg
323	W	"N" or "Xaa" used: Feature required	gctaagaaat aattcnataa ttgagttttg tactcncc
324	W	"N" or "Xaa" used: Feature required	ataatgtnc cccaatgcag cttcattttc caganacc
355	W	"N" or "Xaa" used: Feature required	cttngagtcc aggacaacaa cgggcagaaa tcgagagt
356	W	"N" or "Xaa" used: Feature required	gaatgagtgg gaatccggga cacntgggccc gggctgta
357	W	"N" or "Xaa" used: Feature required	gagaaagatg ttccagtggag gaaccctgat ctntcagc
358	W	"N" or "Xaa" used: Feature required	ccaacactgt ntgcccctcg ggggtgtcaga aattntag
423	W	"N" or "Xaa" used: Feature required	agccaagaac cnatatggcc ttctttttgga caaacctt
457	W	"N" or "Xaa" used: Feature required	tngagtccag gacaacaacg ggcagaaatc gagagtgt
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459	W	"N" or "Xaa" used: Feature required	gaaagatggt ccagtggagga accctgatct ntcagccc
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523	W	"N" or "Xaa" used: Feature required	ccnatatggc cttctttttg acaaaccttg aaaatggt